

**ABBREVIATED DESCRIPTION**

The invention concerns a pigment, filler or mineral containing a natural calcium carbonate, treated with one of more providers of  $\text{H}_3\text{O}^+$  ions and gaseous  $\text{CO}_2$ , allowing a reduction in  
5 the weight of paper for a constant surface area without loss of physical properties when it is used as a pigment or coating filler for the said paper. In particular, the invention concerns a pigment, filler or mineral containing a natural calcium carbonate or dolomite or mixtures of talc and calcium carbonate, of kaolin and carbonate or carbonate alone or in combination with natural and/or synthetic fibres or similar, treated with one or more medium-strong or  
10 strong providers of  $\text{H}_3\text{O}^+$  ions in the presence of gaseous  $\text{CO}_2$ .  
Applications are particularly in the paper industry, obtaining in particular good sheet properties i.e. a reduction its weight for a given surface area.

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